

Claims

1. An electronic throttle valve control system having
a throttle valve for controlling the amount of intake air to an
internal combustion engine; an electric motor for driving the
throttle valve; and a control section for controlling the electric
motor; characterized in that

the throttle valve has an urging mechanism for urging the throttle
valve in the closing direction; and

the control section shifts the electric motor to a regenerative
mode to control the speed at which the throttle valve is rotated
in the closing direction by the urging force of the urging mechanism
when the control system has a failure.
2. The electronic throttle valve control system of Claim 1, wherein
the throttle valve is rotated in the closing direction by the urging
force of the urging mechanism and then held in a predetermined
opening position when the control system has a failure.
3. An electronic throttle valve control system having
a throttle valve for controlling the amount of intake air to an
internal combustion engine; an electric motor for driving the
throttle valve; and a control section for controlling the electric
motor; characterized in that the throttle valve has

a first urging mechanism for urging the throttle valve in the
closing direction; and a second urging mechanism for urging the
throttle valve in the opening direction, and

the control section shifts the electric motor to a regenerative
mode to control the speed at which the throttle valve is rotated
in the closing direction by the relative urging force of the first
and second urging mechanisms when the control system has a failure.
4. The electronic throttle valve control system of Claim 3, wherein
the throttle valve is rotated in the closing or opening direction
by the relative urging force of the first and second urging
mechanisms and then held in a predetermined opening position when

the control system has a failure.

5. The electronic throttle valve control system of Claim 2 or 4, wherein the internal combustion engine is maintained in such a state that escape operation can be conducted when the throttle valve is held in the predetermined opening position.

6. An electronic throttle valve control system having a throttle valve for controlling the amount of intake air to an internal combustion engine; an electric motor for driving the throttle valve; and a control section for controlling the electric motor, characterized in that

the control section shifts the electric motor to a regenerative mode to control the rotation of the throttle valve when the control system has a failure.

7. The electronic throttle valve control system of Claim 6, wherein the throttle valve is held in the opening position where it is when the control system has a failure.

8. The electronic throttle valve control system of any one of Claims 1 to 7, wherein the control section cuts off a power from a power supply to the electric motor and then shifts the electric motor to a regenerative mode.

9. The electronic throttle valve control system of any one of Claims 1 to 5, wherein the urging mechanism is constituted of a mechanism having a spring.

10. The electronic throttle valve control system of any one of Claims 1 to 7, wherein the electronic throttle valve control system further comprises a throttle operation mechanism for use in driving the throttle valve manually so that the throttle valve can be rotated in the closing direction when the control system has a failure.

11. A two-wheeled motor vehicle provided with the electronic

throttle valve control system according to any one of Claims 1 to 11.